



**olivetti**

## TCV 270

### Display system for:

- on-line and real-time applications
- the Interrogation and updating of centralized files
- remote data entry
- decentralized data control

Compatible with a wide range of computers

Advanced modular design; wide range of peripherals can be connected

### Models

**TCV 275 stand-alone version**  
for direct connection to the telephone lines.

**TCV 277 cluster version**  
for connection to telephone lines by means of concentrator (Branch Scanner).

### TCV 270 BASIC SYSTEM

#### Central unit

LSI components.  
Logic control unit for interpreting instructions and logic decisions.

### Memory

ROM (Read Only Memory) microprogram memory, containing programs for controlling the machine's basic functions.  
RAM (Random Access Memory) for storing the data that are displayed on the screen.

### Data input and output units

Model 1 screen: capacity 480 characters, 12 lines of 40 columns.  
Model 2 screen: capacity 1920 characters, 24 lines of 80 columns.  
One line for displaying the status and



operating conditions of the system.  
cathode ray tube, deflection  
, refresh rate of 42 frames  
second.  
of 64 characters, ISO code  
special character sets for different  
national standards).  
9 matrix character generation.

#### boards

Electronic keyboard. Speed up to  
10 key depressions per minute for  
alpha and numeric data, and  
actuation marks and special signs.  
Standard ISO keyboard.

#### board versions:

Typewriter (66 keys) = KB 270 - T1  
Typewriter (78 keys) = KB 270 - T2  
Typewriter (66 keys) = KB 270 - KP.

#### Operational controls

Cursor control.  
Character shift.  
Full or partial display clear.

#### Control units and codes

Control units for transmitting  
data in ISO and EBCDIC codes.  
Transmission up to 4800 Bauds.  
Tipoint, half/full duplex.  
Communications procedures:  
BSC (Binary Synchronous  
Communication)  
D asynchronous.  
Dem interface CCITT 24/EIA 232 A.

#### Automatic control functions

Screen can be divided into fields  
defined as follows:  
Protected and unprotected  
Alphanumeric and numeric  
Displayable and non-displayable  
Selectable » by light pen,  
and « non-selectable »  
Normal and intensified display.  
Automatic field skip.  
Visible signal and displayed  
Messages in case of error.

#### OPTIONS AND PERIPHERALS

ROM microprogram memory for  
controlling peripherals.

ROM microprogram memory for  
complex data formatting, checking  
and processing functions  
(Field Definition Table).

RAM data and program memory,  
which can be extended up to 8 K  
for storing data, control masks and  
application programs.

ROM microprogram memories can be  
produced on request, e.g. check digit,  
algorithm etc.

Set of 96 characters (upper and lower  
case, or special alphabet) for display.

12 function keys for generating  
coded messages which can be  
recognised by the CPU's software,  
and for format selection.

Conversation procedures can be  
programmed for connection to a wide  
range of computers.

LPD 270 - light pen for rapid selection  
of data displayed on the screen.

SV 160 - high speed serial printer:  
165 characters per second.

#### Field Definition Table functions

Right-hand justification of numeric  
fields with or without zero filling.  
Check digit generation and  
verification.  
Field length check.  
Range checking.  
Control of data input sequence.  
3 independent algebraic registers.

#### BRANCH SCANNER

Maximum of 32 VDUs per Branch  
Scanner (8 in basic version).  
Maximum of 18 local lines per Branch  
Scanner (2 in basic version).  
Maximum of 4 VDUs per local line.  
Maximum distance of 2000 feet  
(700 metres) between Branch Scanner  
and last terminal in festoon.

#### Electrical specification

Voltage: 100 - 115 - 127 - 220 - 240 V.  
Single-phase AC, 50 - 60 Hz.  
Consumption: 350 W.

#### Dimensions of basic unit

Width: 53 cm  
Height: 40 cm  
Depth: 48 cm  
Weight: 35 kg

#### Ambient conditions

Temperature limits: 10°C - 40°C.  
Humidity limits: 9% - 90%.